

SABIC Innovative Plastics LNP THERMOCOMP DF008ER PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* DF008ER is a compound based on Polycarbonate resin containing Glass Fiber. Added features of this material include:
Easy Molding, Mold Release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF008ER-PC-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|---------------------------|------------------------------|
| Density | 1.51 g/cc | 0.0546 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in | on Tensile Bar; SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength at Break | 158 MPa | 22900 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 2.3 % | 2.3 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 10.4 GPa | 1510 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 222 MPa | 32200 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 9.50 GPa | 1380 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 16.0 kJ/m ² | 7.61 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 65.0 kJ/m ² | 30.9 ft-lb/in ² | 80*10*4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-----------------------------|----------------------------------|
| CTE, linear, Parallel to Flow | 16.0 Åµm/m-Å°C | 8.89 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 Å°C | @Temperature 73.4 - 140 Å°F | |
| CTE, linear, Transverse to Flow | 60.0 Åµm/m-Å°C | 33.3 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 Å°C | @Temperature 73.4 - 140 Å°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 145 Å°C | 293 Å°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| Deflection Temperature at 1.8 MPa (264 psi) | 140 Å°C | 284 Å°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |

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